Chemiluminescence Imaging System
LX7001CIS

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Description

Chemiluminescence Imaging System LX7001CIS is a high-performance chemiluminescence imaging system designed for sensitive and accurate detection of protein and nucleic acid signals. Equipped with a high-resolution cooled CCD camera and a large-aperture auto-focus lens, it delivers exceptional image clarity and low background noise, even in low-light conditions. The system supports multiple imaging modes, including chemiluminescence, fluorescence, UV, and white-light imaging, offering versatility for a wide range of applications. With intelligent auto-exposure, one-touch operation.

Specifications

Camera	6 Megapixels, 2688 x 2200
Grayscale	16 Bit (65536 levels)
Binning	1*1 , 2*2, 3*3, 4*4
Camera cooling	-25°C
Lens	F/0.95 large aperture, high-resolution motorized autofocus lens
Touch screen	Built-in 10.1-inch touch screen
Maximum image dimension (W x L)	150 x 180 mm
Sample stage	Bilayer
UV transilluminator (operational)	For nucleic acid gel imaging, 302nm, 254nm, 365nm are optional, transmission area 210 x 260 mm
Blue light sample tray (optional)	For imaging nucleic acid gel labeled with nucleic acid dye suitable for blue light excitation, wavelength 470nm, transmission area 210 x 260mm

White light sample tray (optional)	For protein gel imaging such as coomassie brilliant blue gel, silver staining gel etc, transmission area 210 x 260 mm
Epi fluorescent light source (Optional)	For fluorescent samples imaging monochromatic LED light source, up to 5 sets loaded at the same time. Wavelength: 365nm, 470nm, 530nm, 630nm, 660nm, 730nm
Filters (Optional)	Wavelength: 460nm, 525nm, 585nm, 690nm, 715nm, 810nm
Software	Capture and Analysis software
Operating condition	Opertating temperature: 15-30-°C, operating humidity: 20%-70%
Storage condition	Storage temperature: 5-40°C, storage humidity: 10%-80%
Voltage	220V AC, 50/60Hz
Power	≤100W
Product dimension	435 x 395 x 700 mm
Gross weight	35 Kg

Features

- Equipped with a high-resolution cooled CCD camera for detecting faint chemiluminescent signals
- Large-aperture lens (F/0.8 or F/0.95) ensures sharp, clear images with minimal light loss
- Supports chemiluminescence, fluorescence, UV, blue-light, and white-light

imaging in one system

- Automatic parameter optimization for different sample types—no manual adjustment required
- Expandable with interchangeable light sources and filter wheels for multi-channel fluorescence imaging
- Combines visible and chemiluminescent images to simplify band identification
- Includes powerful tools for image capture, enhancement, and quantitative analysis

Applications

- The Chemiluminescence Imaging System is widely used in genetic engineering, biotechnology, and molecular biology for capturing high-resolution images of DNA/RNA bands. It is also ideal for protein detection, ELISA plate reading, and advanced chemiluminescence analysis, offering researchers reliable and sensitive imaging solutions across various laboratory applications.

Optional Accessories

- UV Transilluminator
- Blue light sample tray
- White light sample tray
- Epi fluorescent light source
- Filters

Chemiluminescence Image System Software

- One-click auto-exposure and automatic image saving
- Time series shooting (1–99 frames grayscale accumulation)
- Automatic marker overlay with chemiluminescence image
- Image editing tools: crop, rotate, pseudo color, etc.
- Export reports in PDF and images in TIFF/JPG
- Batch export supported
- Auto band detection and adjustment
- Molecular weight calculation, Grayscale quantification, Background subtraction

- Export results to Excel
- Having audit trail function

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